

FIG. 1

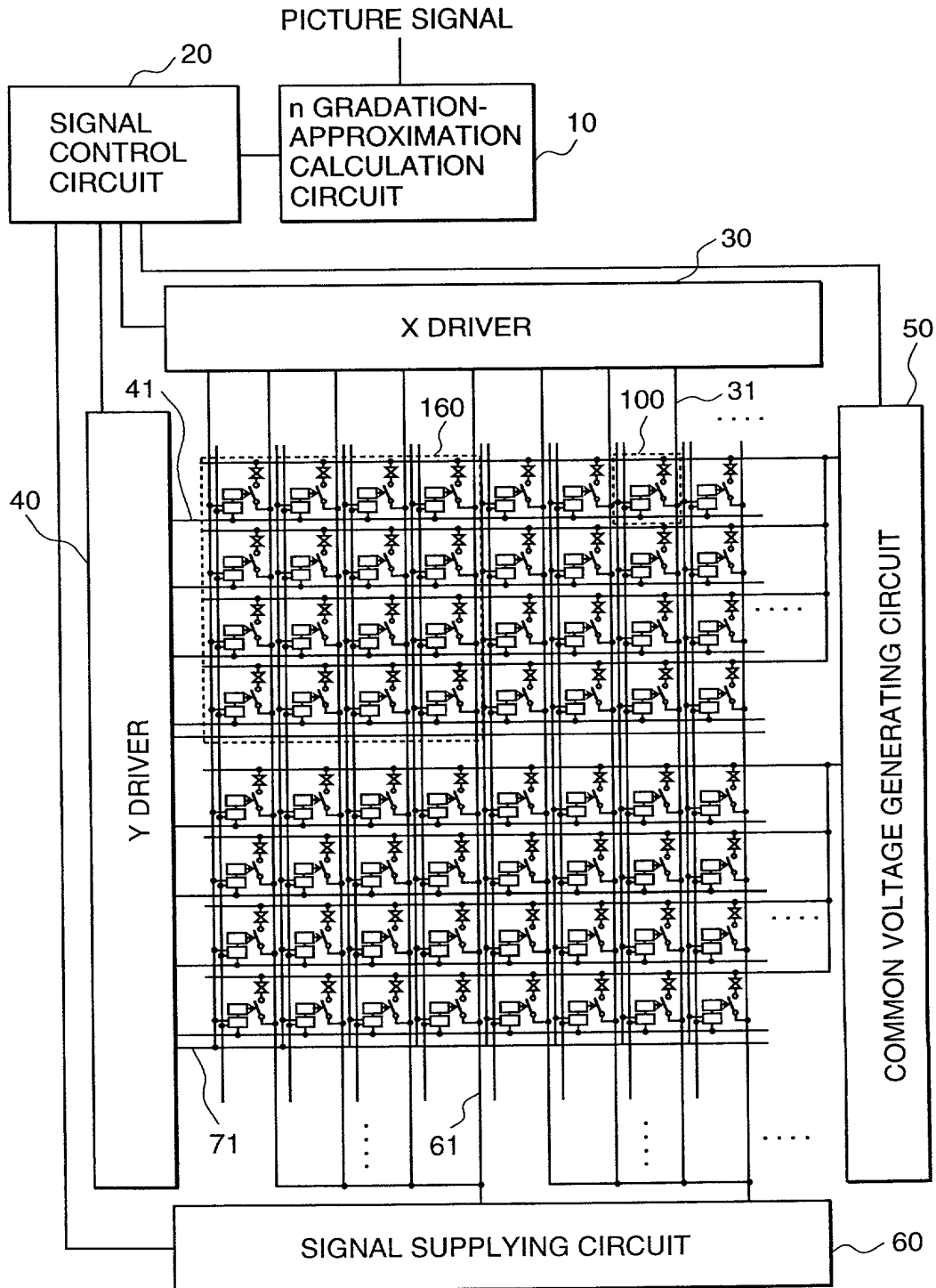


FIG. 1

FIG. 3

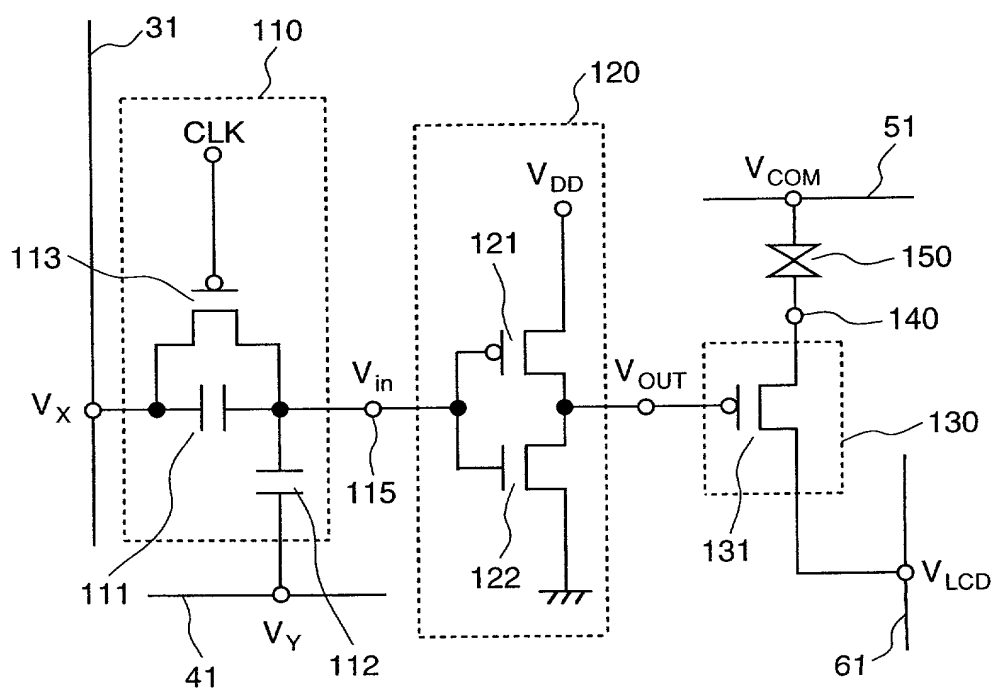


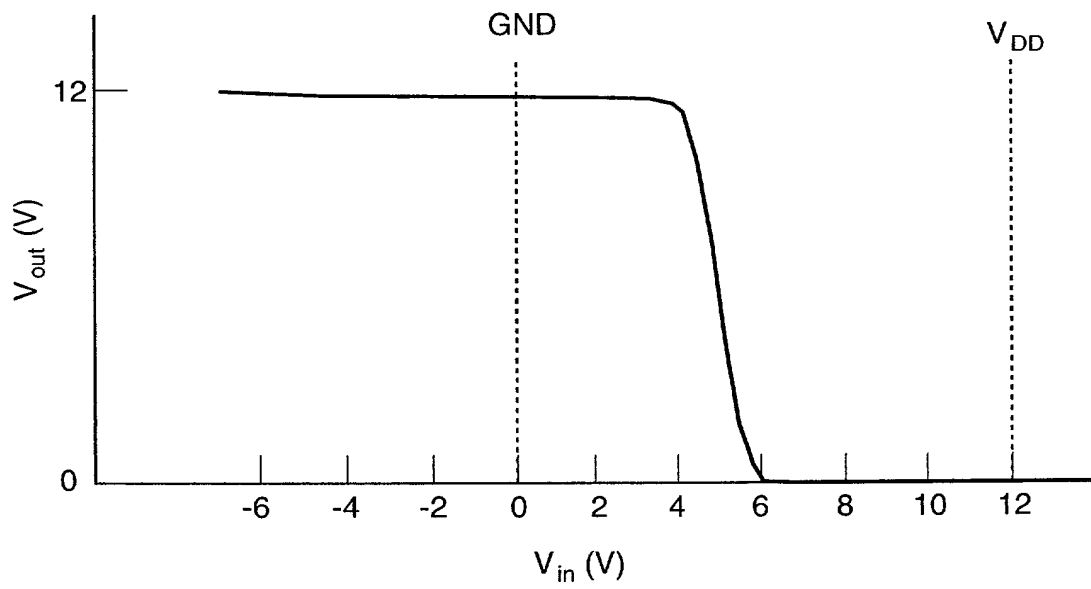
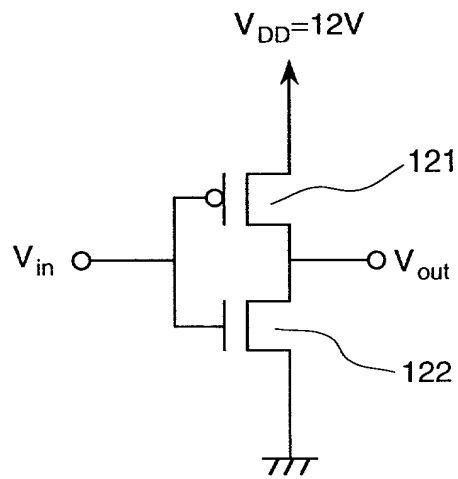
FIG. 4

FIG. 5

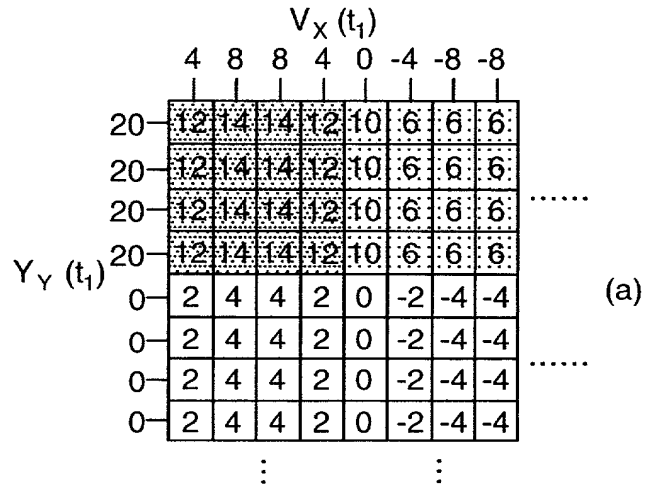
SELECTION PERIOD t_1 :

LINES 1 TO 4

$$V_{in}(t_1) = (V_x(t_1) + V_x(t_1))/2 \\ = (V_x(t_1) + 20j)/2 \geq 6$$

LINES 5 TO 8

$$V_{in}(t_1) = (V_x(t_1) + V_x(t_1))/2 \\ = (V_x(t_1) + 0j)/2 \leq 4$$

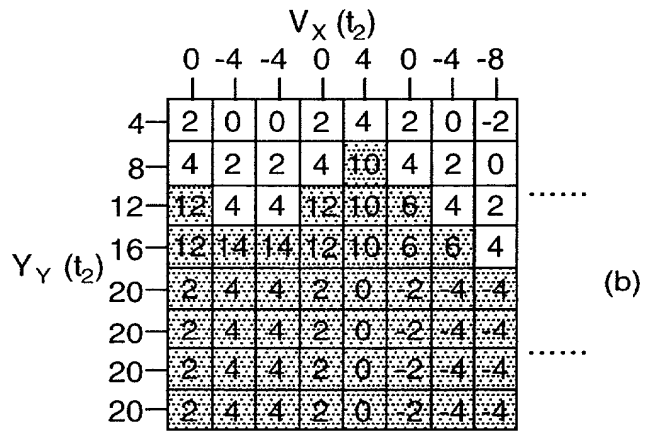
SELECTION PERIOD t_2 :

LINES 1 TO 4

$$V_{in}(t_2) = (V_x(t_2) + V_x(t_2))/2$$

LINES 5 TO 8

$$V_{in}(t_2) = (V_x(t_2) + V_x(t_2))/2 \\ = (V_x(t_2) + 20j)/2 \geq 6$$

SELECTION PERIOD t_3 :

LINES 1 TO 4

$$V_{in}(t_3) = (V_x(t_3) + V_x(t_3))/2 \\ = (V_x(t_3) + 0j)/2 \leq 4$$

LINES 5 TO 8

$$V_{in}(t_3) = (V_x(t_3) + V_x(t_3))/2$$

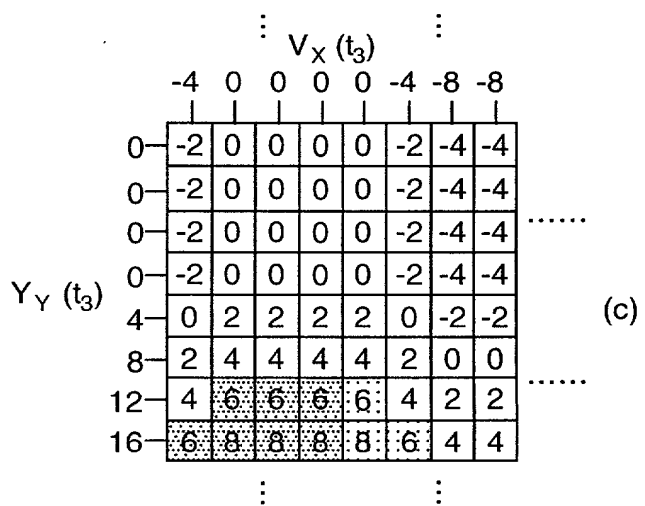


FIG. 6

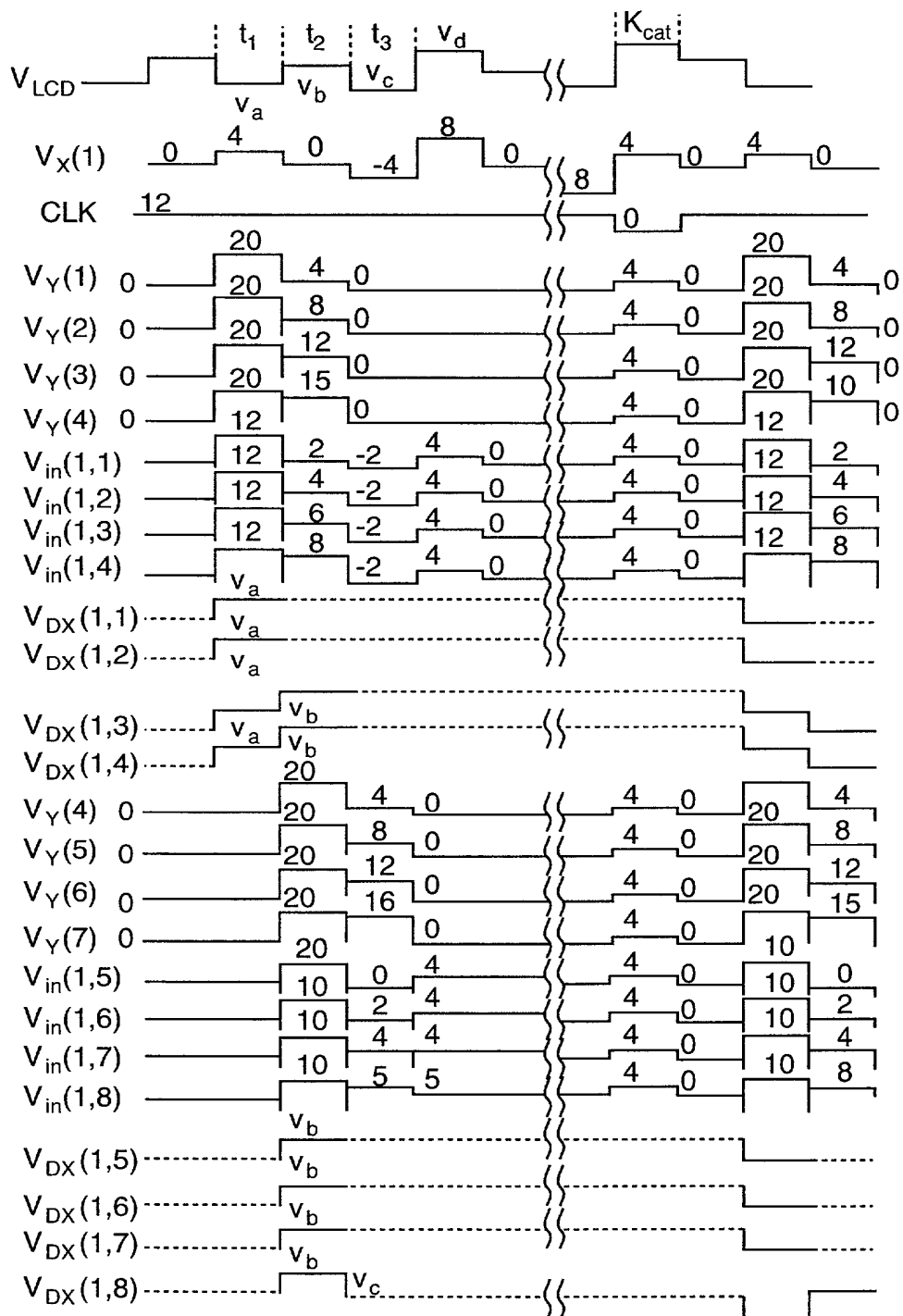


FIG. 7

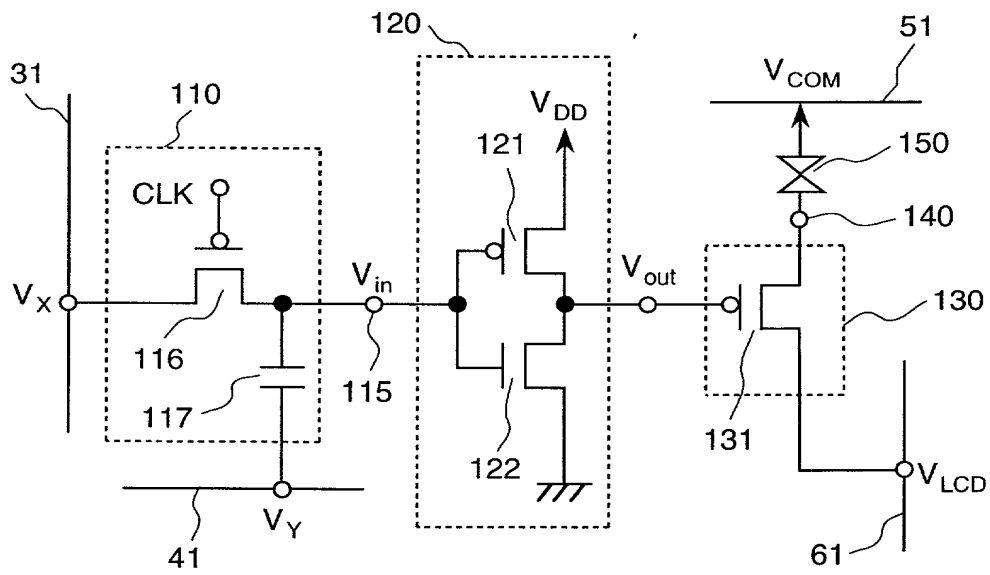


FIG. 8

SELECTION PERIOD t_1 :

LINES 1 TO 4

$$V_{in}(t_1) = V_X(t_1) \geq 6$$

LINES 5 TO 8

$$\text{HOLDING } V_{in}(t_1) \leq 4$$

		$V_X(t_1)$							
		10	8	8	10	12	10	8	6
10	$Y_Y(t_1)$	10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
		\vdots							

(a)

SELECTION PERIOD t_2 :

LINES 1 TO 4

$$V_{in}(t_2) = V_X(t_1) + V_Y(t_2) - 10$$

$$V_{in}(t_2) = V_X(t_2) \geq 6$$

		$V_X(t_2)$							
		8	10	10	10	10	8	6	6
2	$Y_Y(t_2)$	2	0	0	2	4	2	0	-2
4		4	2	2	4	6	4	2	0
6		6	4	4	6	8	6	4	2
8		8	6	6	8	10	8	6	4
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
10		8	10	10	10	10	8	6	6
		\vdots							

(b)

SELECTION PERIOD t_3 :

LINES 1 TO 4

$$\text{HOLDING } V_{in}(t_3) = V_X(t_1) - 10 \leq 4$$

LINES 5 TO 8

$$V_{in}(t_3) = V_X(t_2) + V_Y(t_3) - 10$$

		$V_X(t_3)$							
		-4	0	0	0	0	-4	-8	-8
0	$Y_Y(t_3)$	-2	0	0	0	0	-2	-4	-4
0		-2	0	0	0	0	-2	-4	-4
0		-2	0	0	0	0	-2	-4	-4
0		-2	0	0	0	0	-2	-4	-4
2		0	2	2	2	2	0	-2	-2
4		2	4	4	4	4	2	0	0
6		4	6	6	6	6	4	2	2
8		6	8	8	8	8	6	4	4
		\vdots							

(c)

FIG. 10

SELECTION PERIOD t_1 :

LINES 1 TO 4

$$V_{in}(t_1) = V_X(t_1) \geq 6$$

LINES 5 TO 8

$$HOLDING \ V_{in}(t_1) \leq 4$$

		$V_X(t_1)$							
		10	8	8	10	12	10	8	6
10	$Y_Y(t_1)$	10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
10		10	8	8	10	12	10	8	6
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
0		*	*	*	*	*	*	*	*
		\vdots							

(a)

SELECTION PERIOD t_2 :

LINES 1 TO 4

$$V_{in}(t_2) = V_X(t_1) + V_Y(t_2) - 10$$

$$HOLDING \ V_{in}(t_1) \leq 4$$

		$V_X(t_2)$							
		8	10	10	10	10	8	6	6
2	$V_Y(t_2)$	2	0	0	2	4	2	0	-2
4		4	2	2	4	6	4	2	0
6		6	4	4	6	8	6	4	2
8		8	6	6	8	10	8	6	4
10		*	*	*	*	*	*	*	*
10		*	*	*	*	*	*	*	*
10		*	*	*	*	*	*	*	*
10		*	*	*	*	*	*	*	*
		\vdots							

(b)

SELECTION PERIOD t_3 :

LINES 1 TO 4

$$HOLDING \ V_{in}(t_3) = V_X(t_1) - 10 \leq 4$$

LINES 5 TO 8

$$V_{in}(t_3) = V_X(t_3) \geq 6$$

		$V_X(t_3)$							
		-4	0	0	0	0	-4	-8	-8
0	$Y_Y(t_3)$	-2	0	0	0	0	-2	-4	-4
0		-2	0	0	0	0	-2	-4	-4
0		-2	0	0	0	0	-2	-4	-4
0		-2	0	0	0	0	-2	-4	-4
2		8	10	10	10	10	8	6	6
4		8	10	10	10	10	8	6	6
6		8	10	10	10	10	8	6	6
8		8	10	10	10	10	8	6	6
		\vdots							

(c)

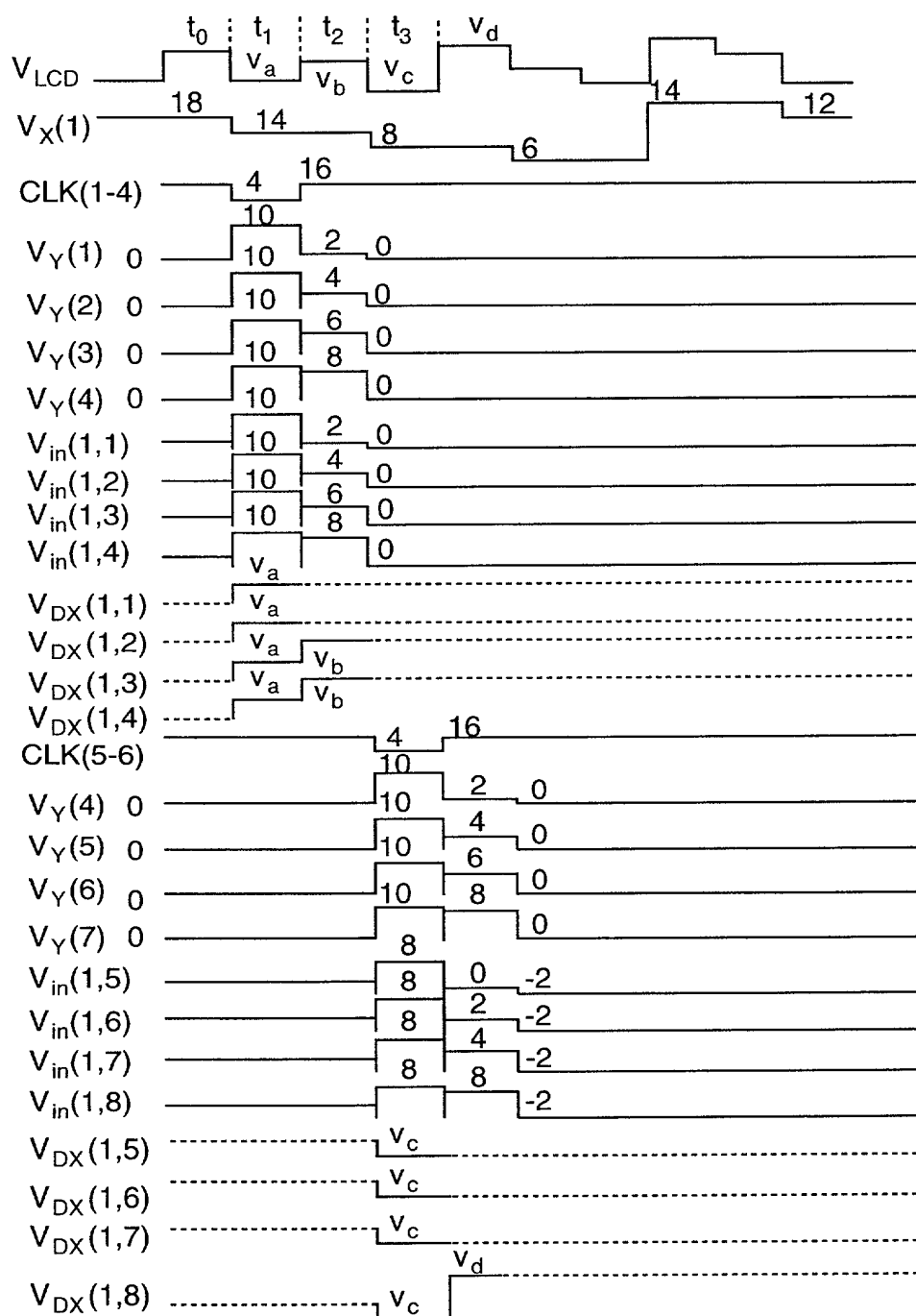
FIG. 11

FIG. 12

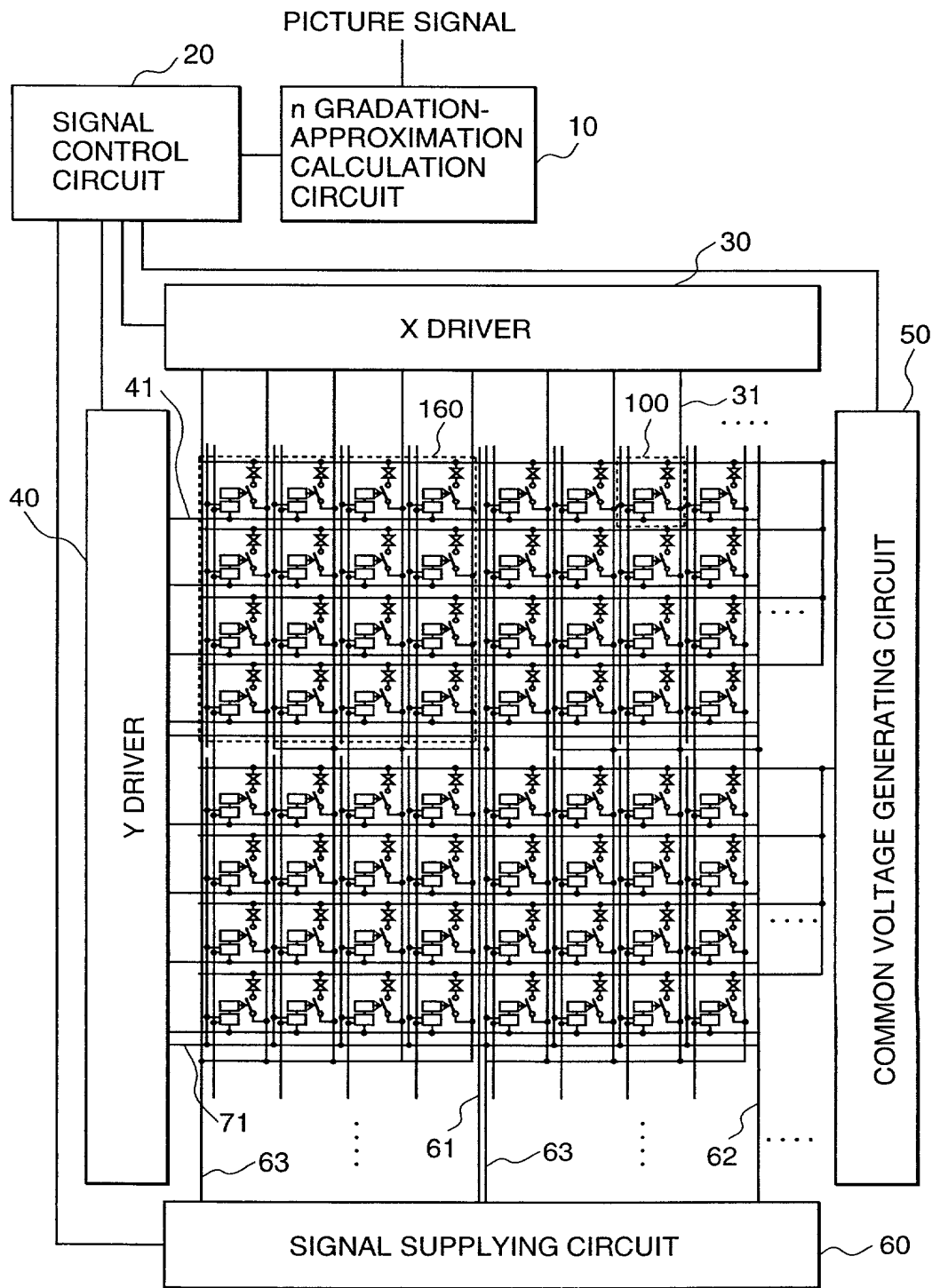


FIG. 13

SELECTION PERIOD t_1 :

LINES 1 TO 4

$$V_{in}(t_1) = V_X(t_1) \geq 6$$

LINES 5 TO 8

$$HOLDING \ V_{in}(t_1) \leq 4$$

		$V_X(t_1)$							
		10	8	8	10	12	10	8	6
$Y_Y(t_1)$	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	10	10	8	8	10	12	10	8	6
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
	0	*	*	*	*	*	*	*	*
		⋮							

(a)

SELECTION PERIOD t_2 :

LINES 1 TO 4

$$V_{in}(t_2) = V_X(t_1) + V_Y(t_2) - 10$$

$$V_{in}(t_2) = V_X(t_2) \geq 6$$

		$V_X(t_2)$							
		8	10	10	10	10	8	6	6
$V_Y(t_2)$	2	2	0	0	2	4	2	0	-2
	4	4	2	2	4	6	4	2	0
	6	6	4	4	6	8	6	4	2
	8	8	6	6	8	10	8	6	4
	10	8	10	10	10	10	8	6	6
	10	8	10	10	10	10	8	6	6
	10	8	10	10	10	10	8	6	6
	10	8	10	10	10	10	8	6	6
		⋮							

(b)

SELECTION PERIOD t_3 :

LINES 1 TO 4

$$HOLDING \ V_{in}(t_3) = V_X(t_1) - 10 \leq 4$$

LINES 5 TO 8

$$V_{in}(t_3) = V_X(t_2) + V_Y(t_3) - 10$$

		$V_X(t_3)$							
		14	10	8	6	6	10	10	12
$Y_Y(t_3)$	0	0	-2	-2	0	2	0	-2	-4
	0	0	-2	-2	0	2	0	-2	-4
	0	0	-2	-2	0	2	0	-2	-4
	0	0	-2	-2	0	2	0	-2	-4
	2	0	2	2	2	2	0	-2	-2
	4	0	4	4	4	4	2	0	0
	6	4	6	6	6	6	4	2	2
	8	6	8	8	8	8	6	4	4
		⋮							

(c)

FIG. 14

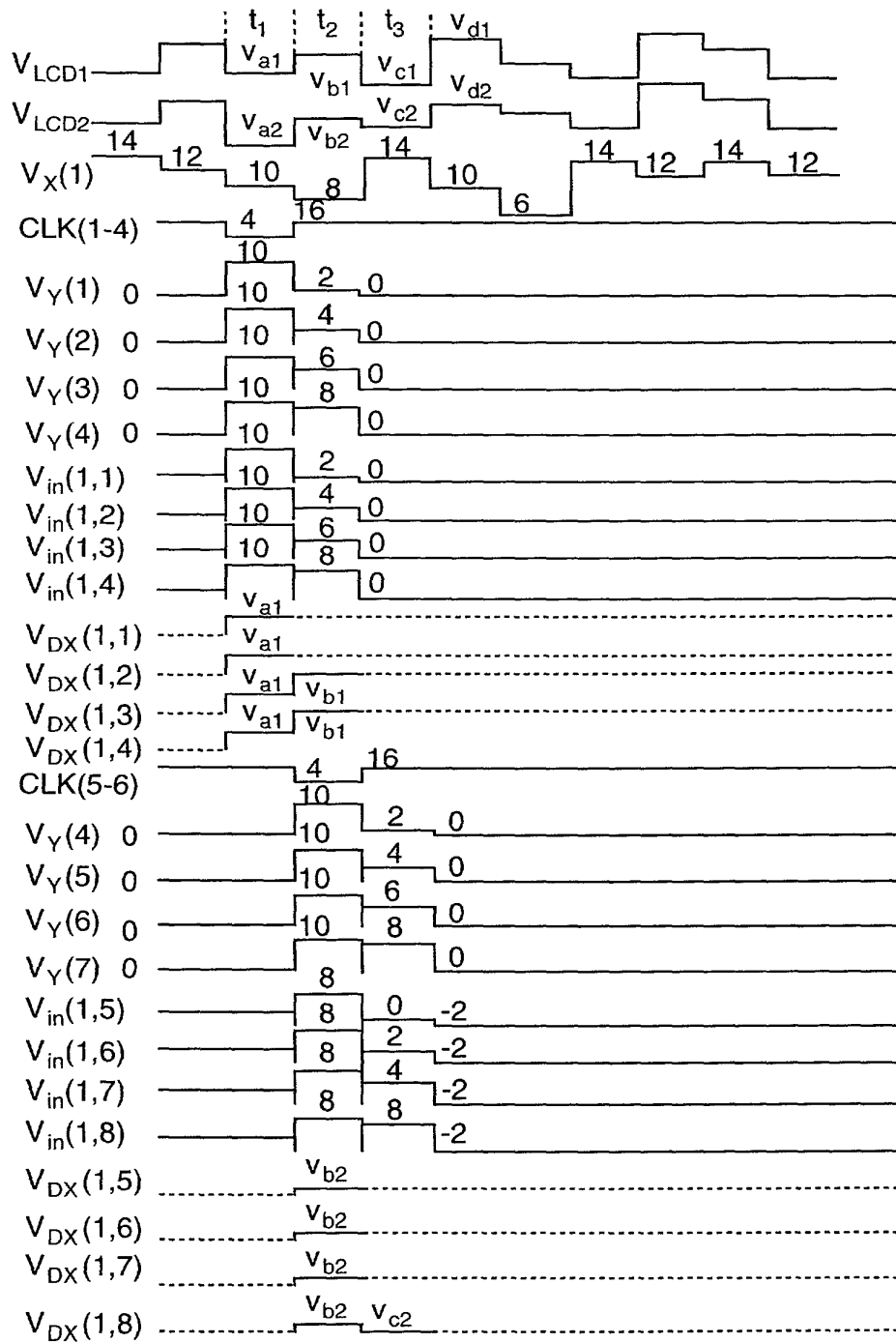


FIG. 15

SELECTION PERIOD t_1 :
 LINES 1 TO 4
 $V_{in}(t_1) = V_X(t_1)$

		$V_X(t_1)$							
		2	6	6	8	10	8	6	4
6	6	2	6	6	8	10	8	6	4
6	6	2	6	6	8	10	8	6	4
6	6	2	6	6	8	10	8	6	4
6	6	2	6	6	8	10	8	6	4
0	0	*	*	*	*	*	*	*	*
0	0	*	*	*	*	*	*	*	*
0	0	*	*	*	*	*	*	*	*
0	0	*	*	*	*	*	*	*	*
		⋮							

(a)

LINES 5 TO 8
 HOLDING $V_{in}(t_1) \leq 4$

SELECTION PERIOD t_2 :
 LINES 1 TO 4
 $V_{in}(t_2) = V_X(t_1) + 4 \geq 6$

		$V_X(t_2)$							
		4	6	6	6	6	4	2	2
10	10	6	10	10	12	14	12	10	8
10	10	6	10	10	12	14	12	10	8
10	10	6	10	10	12	14	12	10	8
10	10	6	10	10	12	14	12	10	8
6	6	4	6	6	6	6	4	2	2
6	6	4	6	6	6	6	4	2	2
6	6	4	6	6	6	6	4	2	2
6	6	4	6	6	6	6	4	2	2
		⋮							

(b)

SELECTION PERIOD t_3 :
 LINES 1 TO 4
 $V_{in}(t_3) = V_X(t_1) + V_Y(t_3) - 6$

		$V_X(t_3)$							
		10	8	6	2	2	4	6	8
2	4	-2	2	2	4	6	4	2	0
4	6	0	4	4	6	8	6	4	2
6	8	2	6	6	8	10	8	6	4
8	10	4	8	8	10	12	8	8	6
10	10	8	10	10	10	10	8	6	6
10	10	8	10	10	10	10	8	6	6
10	10	8	10	10	10	10	8	6	6
10	10	8	10	10	10	10	8	6	6
		⋮							

(c)

LINES 5 TO 8
 $V_{in}(t_3) = V_X(t_2) + 4 \geq 6$

FIG. 17

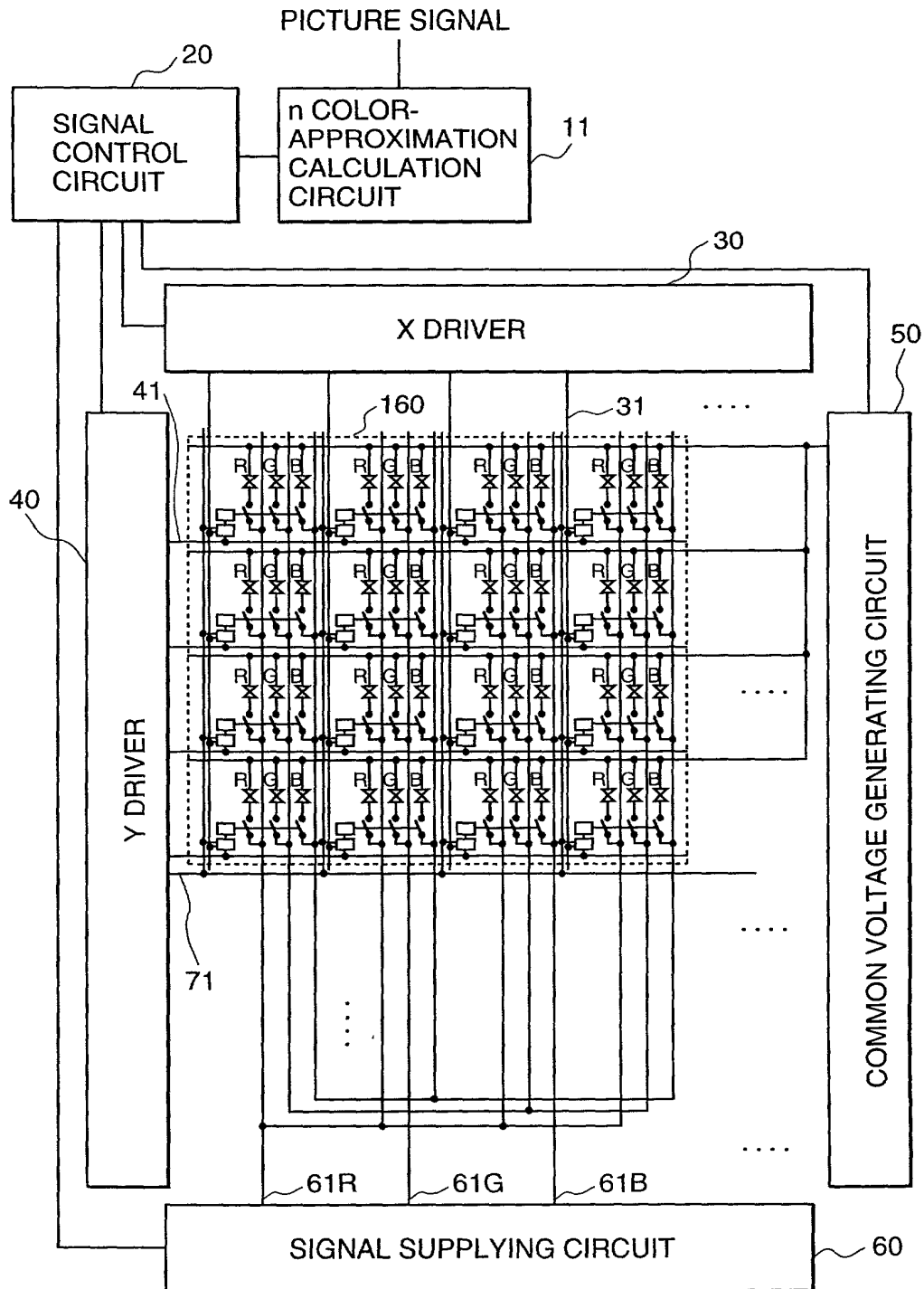


FIG. 18

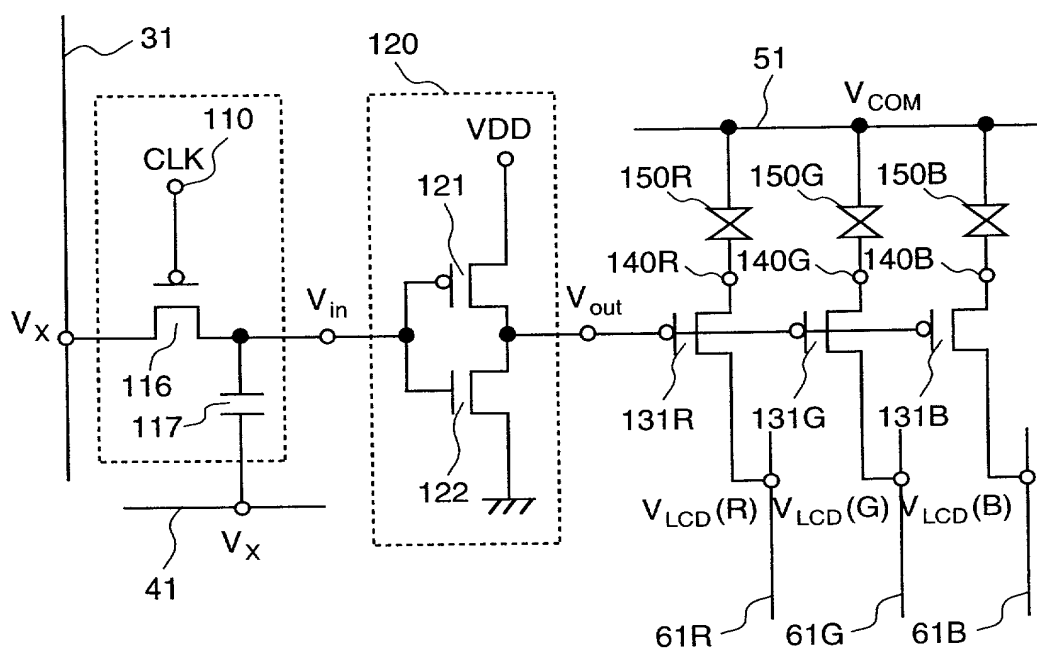


FIG. 19

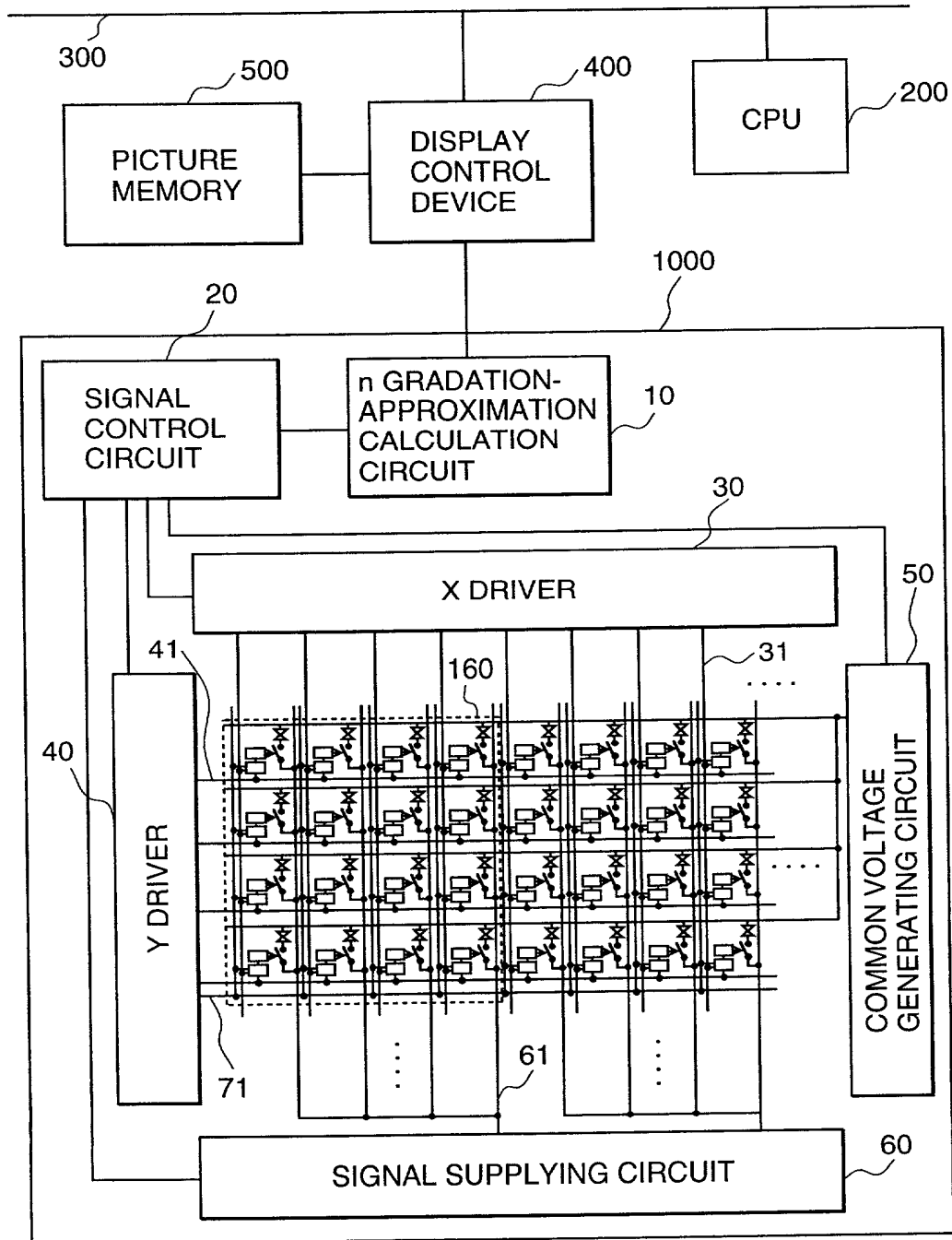


FIG. 20

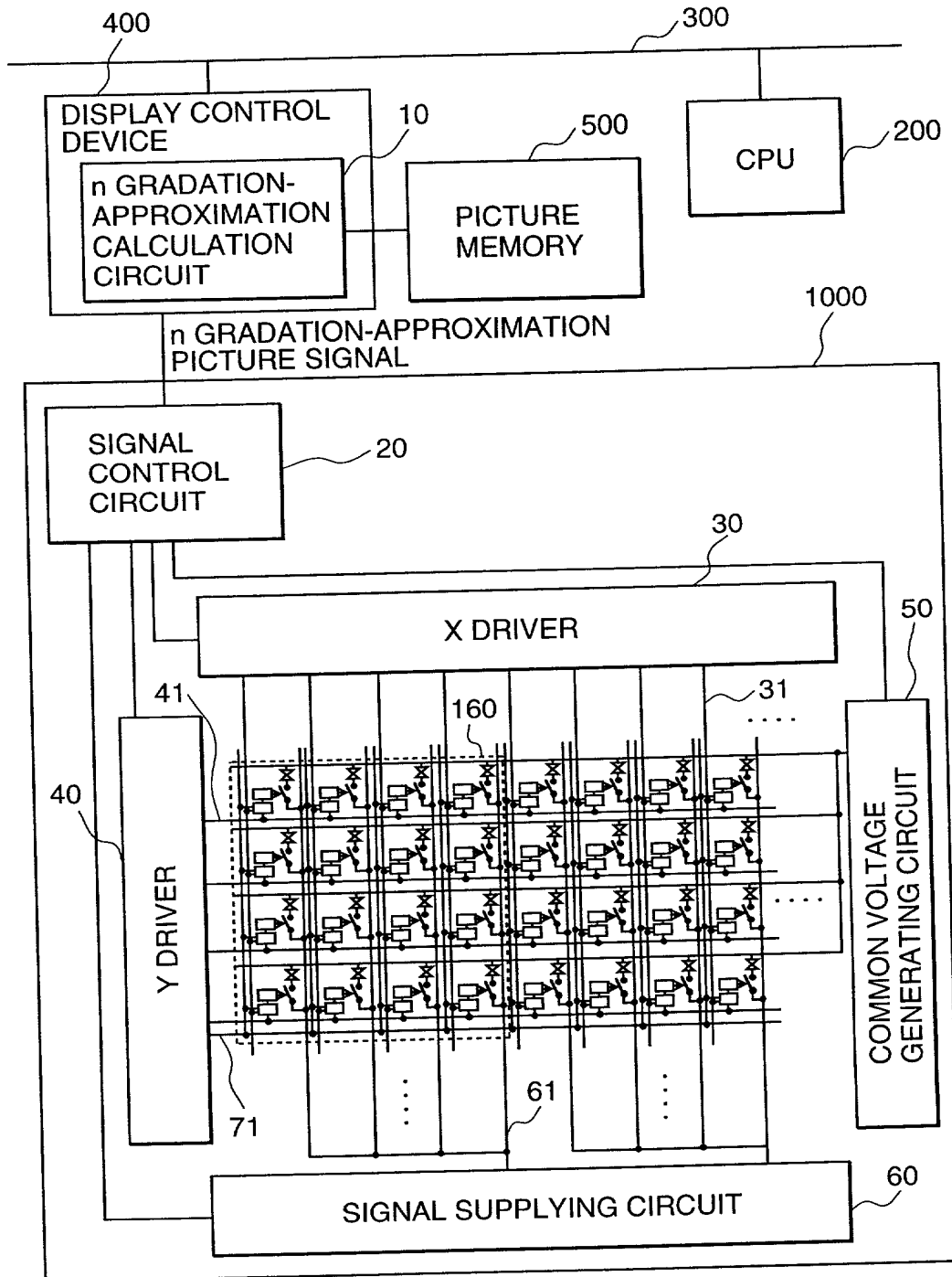
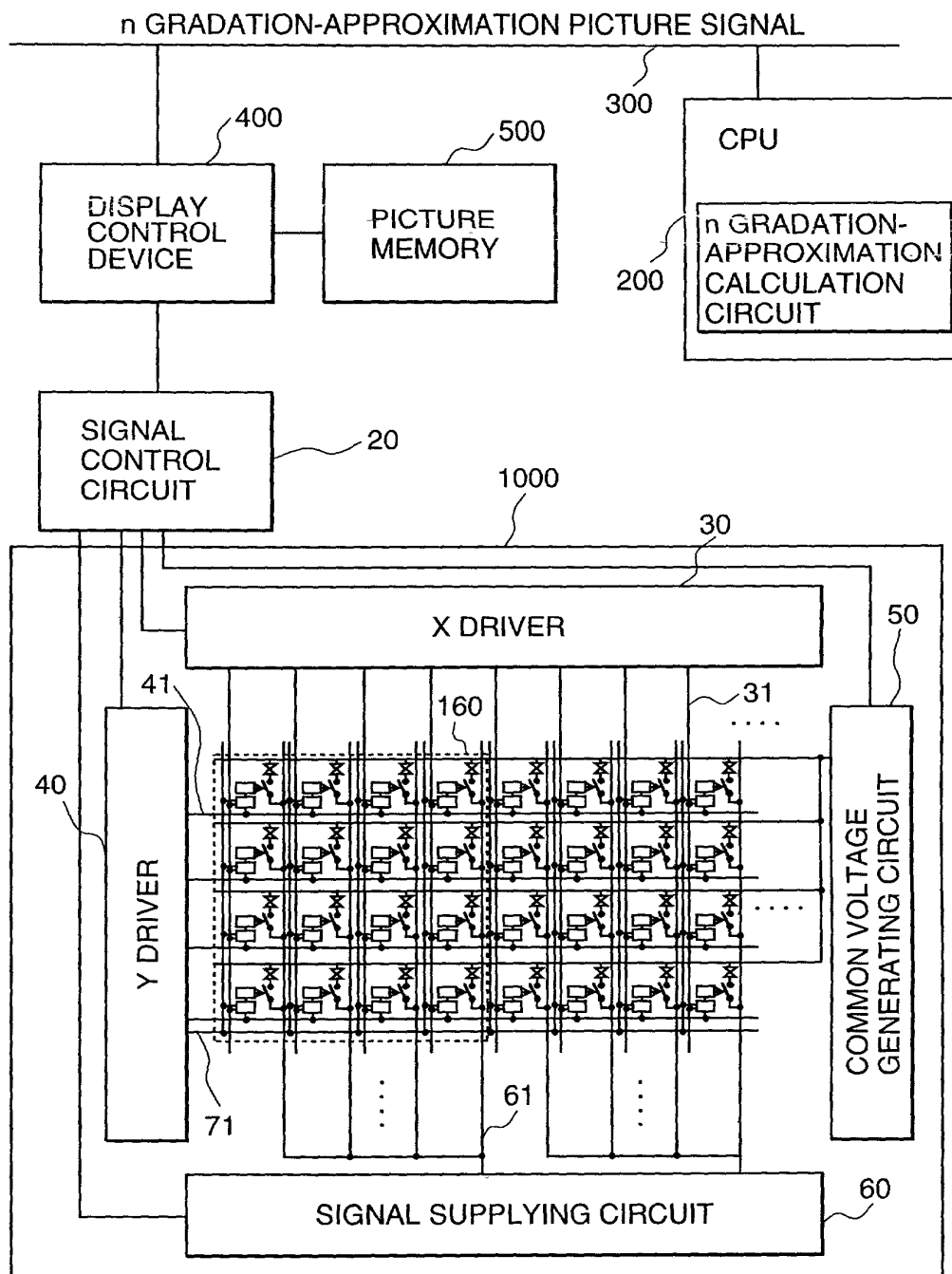


FIG. 21



[illegible]